



SPYWOLF

Security Audit Report



Audit prepared for
BullGrok

Completed on
March 14, 2024

@SPYWOLFNWORK



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SPYWOLF.CO





KEY RESULTS

Cannot mint new tokens	Passed
Cannot pause trading (honeypot)	Passed
Cannot blacklist an address	Passed
Cannot raise taxes over 25%?	Passed
No proxy contract detected	Passed
Not required to enable trading	Passed
No hidden ownership	Passed
Cannot change the router	Passed
No cooldown feature found	Passed
Bot protection delay is lower than 5 blocks	Passed
Cannot set max tx amount below 0.05% of total supply	Passed
The contract cannot be self-destructed by owner	Passed

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

*Contract can halt involuntarily from internal logic





OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”



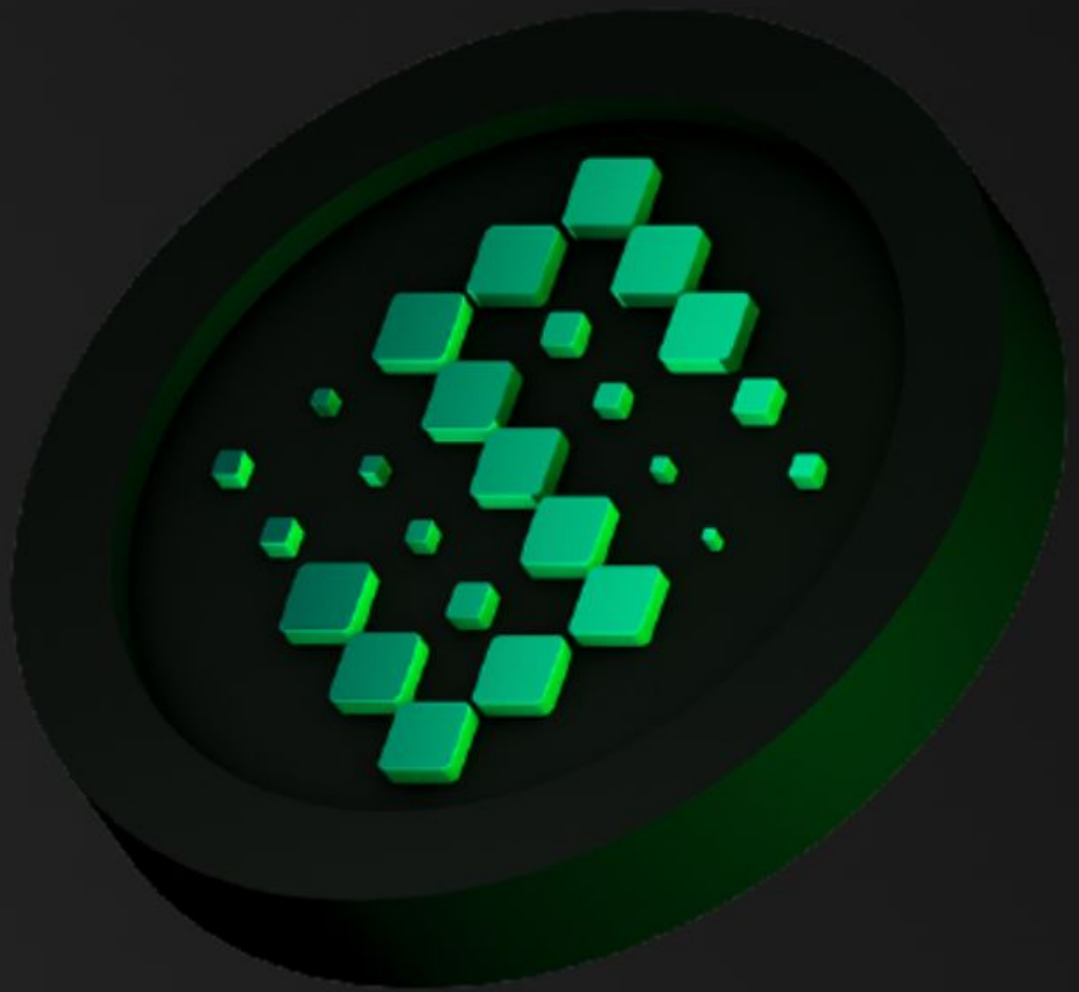


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BullGrok



PROJECT DESCRIPTION

According to their website:

BullGrok is here to make memecoins great again and start bull meme run. Launched with no unlocked tokens, three taxes, LP locked and contract renounced. \$BULLGROK is a coin for the people, forever. Fueled by full memetic power, let \$BULLGROK show you the way in this bull run.

Release Date: Presale starts in March, 2024

Category: Meme token



CONTRACT INFO

Token Name
BULLGROK

Symbol
BULLGROK

Contract Address
0x6d9e069eD817125172680e7a4f83a11F1798b421

Network
Binance Smart Chain

Language
Solidity

Deployment Date
Jan 14, 2024

Contract Type
Token with taxes

Total Supply
1,000,000,000

Status
Not launched

TAXES

Buy Tax
3%

Sell Tax
3%

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000 BULLGROK
Median Transfer Amount	1000000000 BULLGROK
Average Transfer Amount	1000000000 BULLGROK
First transfer date	2024-01-14
Last transfer date	2024-01-14
Days token transferred	1

SMART CONTRACT STATS

Calls Count	2
External calls	2
Internal calls	0
Transactions count	2
Uniq Callers	1
Days contract called	1
Last transaction time	Jan-14-2024 03:11:56 PM +UTC
Created	Jan-14-2024 03:09:47 PM +UTC
Create TX	0x86e3570421b847e21d1ab42356398ac72cd8e3c59cb06ccf096d57669d2e5868
Creator	0x0cf713925e17B2fB92154e035FCc65AE3504F4d1



FEATURED WALLETS

Owner address	0x0cf713925e17B2fB92154e035FCc65AE3504F4d1
Marketing fee receiver	0x4fA777414A341F33518A923F9f31a3847AbF755b
LP address	0x2fa434407C8A159aaCf038380c9E21A8EE08216f

TOP 3 UNLOCKED WALLETS

100%	Same as owner Tokens are not distributed yet
N/A	
N/A	



VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



VULNERABILITY ANALYSIS

NO ERRORS FOUND



MANUAL CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ Medium Risk

If auto send marketing funds fails, contract will halt on sell and selling will be impossible.

```
function sendValue(address payable recipient, uint256 amount) internal {
    require(
        address(this).balance >= amount,
        "Address: insufficient balance"
    );

    (bool success, ) = recipient.call{value: amount}("");
    require(
        success,
        "Address: unable to send value, recipient may have reverted"
    );
}

function Liquify(uint256 feeswap, Taxes memory swapTaxes) private lockTheSwap {
    .....
    uint256 marketingwAmt = unitBalance * 2 * swapTaxes.marketingw;
    if (marketingwAmt > 0) {
        payable(marketingwWallet).sendValue(marketingwAmt);
    }

    uint256 devAmt = unitBalance * 2 * swapTaxes.dev;
    if (devAmt > 0) {
        payable(devWallet).sendValue(devAmt);
    }
    .....
}
```

- Recommendation:
 - Remove the require() statements in sendvalue() function.



FOUND THREATS

Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function AddExemptFee(address _address) external onlyOwner {
    exemptFee[_address] = true;
}

function AddbulkExemptFee(address[] memory accounts) external onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        exemptFee[accounts[i]] = true;
    }
}
```

Owner can withdraw any tokens from the contract, except the native BULLGROK token.

When this function is present, in cases tokens and/or bnb are sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function rescueBNB(uint256 weiAmount) external onlyOwner {
    payable(owner()).transfer(weiAmount);
}

function rescueBEP20(address tokenAdd, uint256 amount) external onlyOwner {
    require(tokenAdd != address(this), "Owner can't claim contract's balance of its own tokens");
    IERC20(tokenAdd).transfer(owner(), amount);
}
```



FOUND THREATS

Informational

Owner can enable trading only once.
Trading is currently enabled.

```
function EnableTrading() external onlyOwner {  
    require(!tradingEnabled, "Cannot re-enable trading");  
    tradingEnabled = true;  
    providingliquidity = true;  
    genesis_block = block.number;  
}
```



There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

TOKENOMICS



WEBSITE

Website URL

<https://www.bullgrokbsc.com/>

Domain Registry

<https://www.wix.com>

Domain Expiration

2025-01-04

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

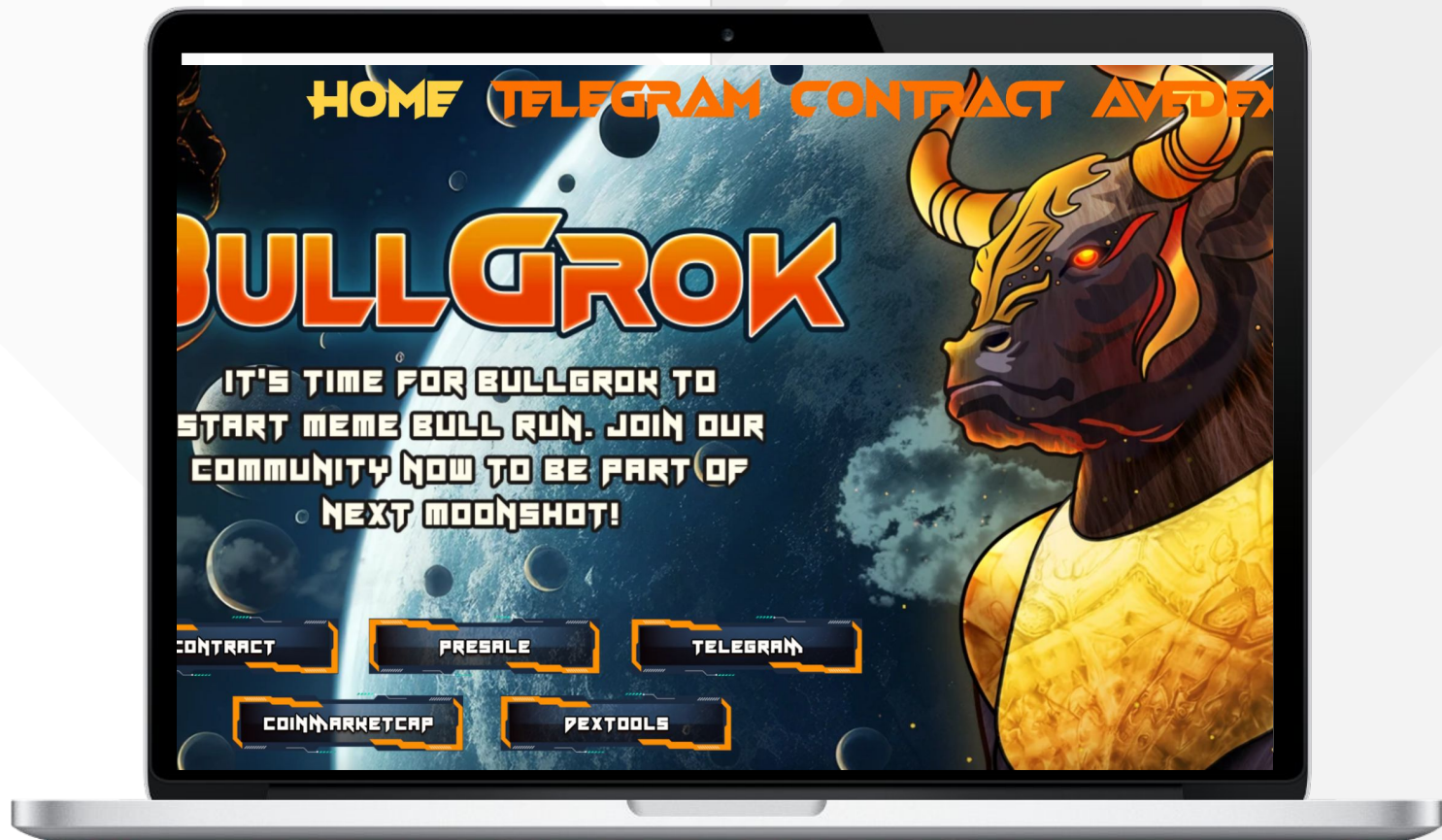
No

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



bullgrokbsc.com

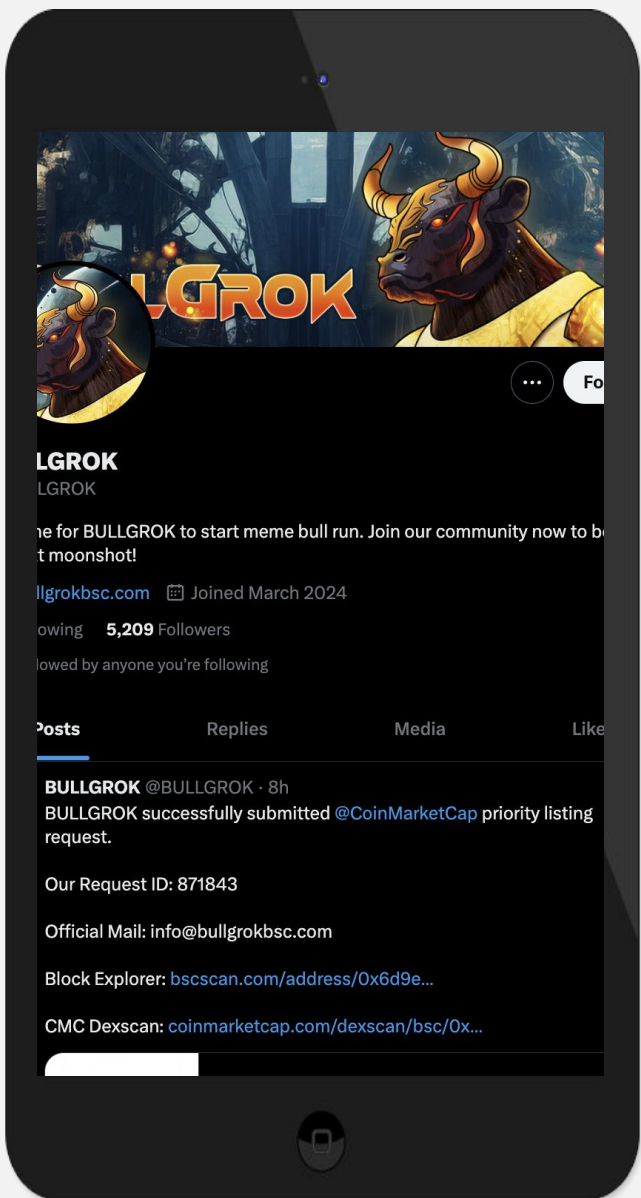
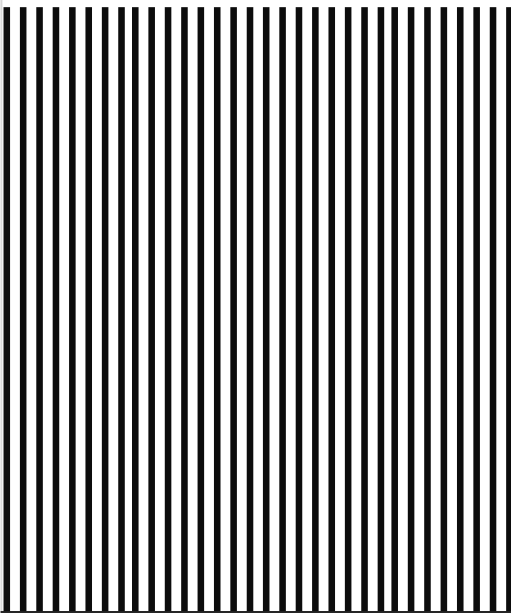


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social
media pages are
active



Twitter's X

@BULLGROK

- 5 725 followers
- Active



Discord

- Not available



Telegram

@BULLGROKBSC

- 4 384 members
- Few active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.